

80 PLUS Verification and Testing Report

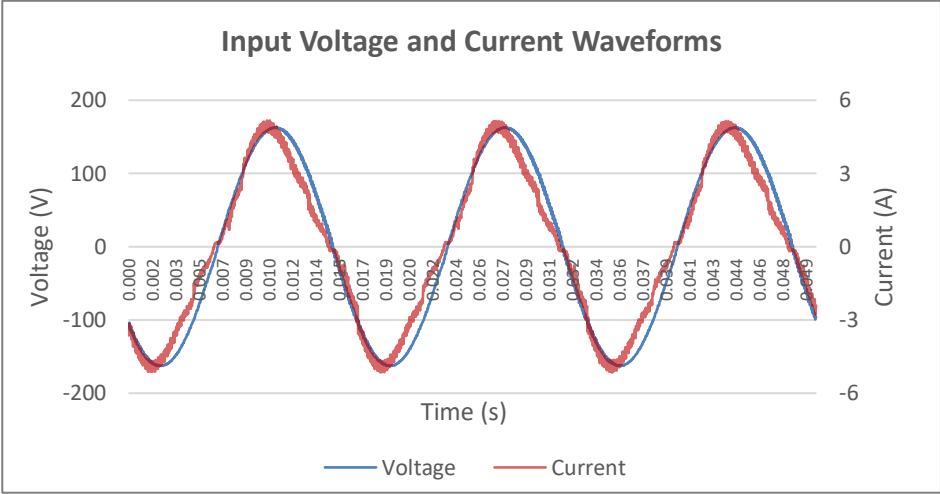
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 90.82% |
| AVERAGE EFFICIENCY :           | 86.71% |
| 80 PLUS COMPLIANT:             | Gold   |



|               |            |
|---------------|------------|
| ID Number     | 7259       |
| Manufacturer  | DeepCool   |
| Model Number  | PN650M-FC  |
| Serial Number | 2023000046 |
| Year          | 2023       |
| Type          | ATX12V     |
| Test Date     | 1/3/24     |

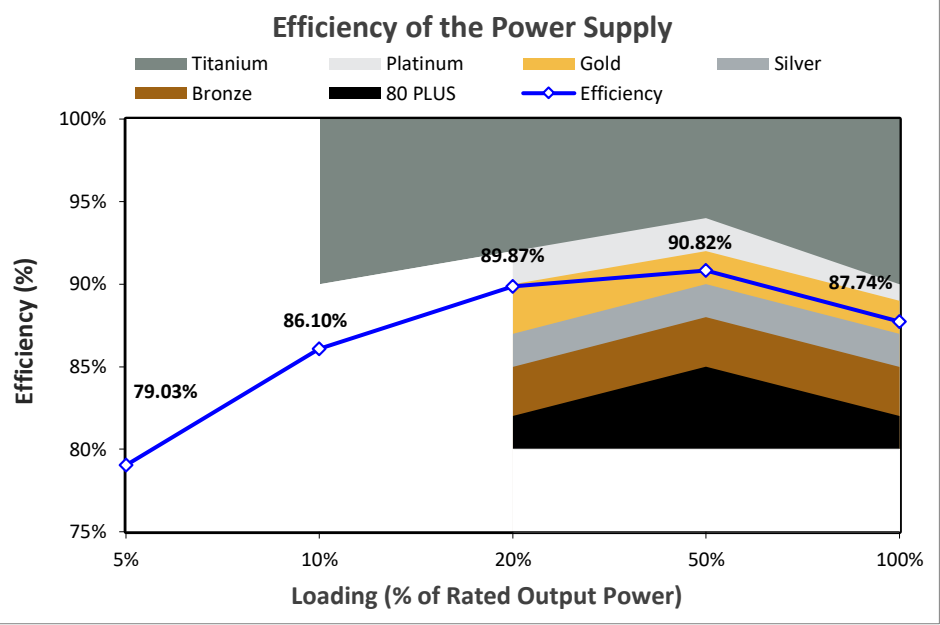
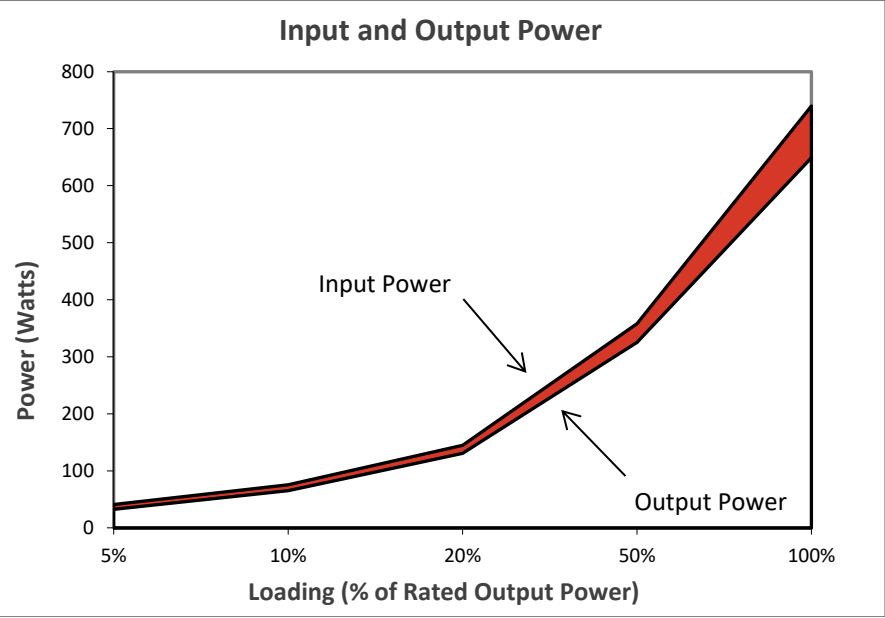
| Rated Specifications |  | Value   | Units |
|----------------------|--|---------|-------|
| Input Voltage        |  | 100-240 | Volts |
| Input Current        |  | 10-5    | Amps  |
| Input Frequency      |  | 50-60   | Hz    |
| Rated Output Power   |  | 650     | Watts |

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 12.97%, 50% Load)

| I <sub>RMS</sub> (A) | PF     | I <sub>THD</sub> (%) | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) |             |            |            |            | Output Watts | Efficiency |
|----------------------|--------|----------------------|------|-------------|----------------------------------------------|-------------|------------|------------|------------|--------------|------------|
|                      |        |                      |      |             | 12V (cumulative of 12V1, 12V2, etc.)         | -12V        | 3.3V       | 5V         | 5Vstb      |              |            |
| 0.148                | 0.4016 | 23.64                | 0%   | 6.84        | No-Load                                      |             |            |            |            |              |            |
| 0.397                | 0.9029 | 13.52                | 5%   | 41.22       | 12.01/2.29                                   | 11.65/0.013 | 3.35/0.51  | 5/0.51     | 5.09/0.127 | 32.58        | 79.03%     |
| 0.691                | 0.9519 | 14.22                | 10%  | 75.65       | 12.01/4.58                                   | 11.53/0.025 | 3.35/1.02  | 5/1.02     | 5.08/0.254 | 65.13        | 86.10%     |
| 1.296                | 0.9722 | 14.99                | 20%  | 144.90      | 12.01/9.16                                   | 11.44/0.051 | 3.35/2.04  | 5/2.04     | 5.07/0.509 | 130.23       | 89.87%     |
| 3.159                | 0.9851 | 12.97                | 50%  | 358.00      | 11.99/22.9                                   | 11.43/0.127 | 3.35/5.11  | 5.01/5.11  | 5.03/1.272 | 325.15       | 90.82%     |
| 6.526                | 0.9861 | 12.54                | 100% | 739.80      | 11.97/45.79                                  | 11.6/0.254  | 3.35/10.22 | 5.02/10.22 | 4.95/2.543 | 649.14       | 87.74%     |



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>